

# MODEL 50B-PS WINCH for John Deere 700H CRAWLER TRACTORS

# CARCO®

## for JOHN DEERE

### SPECIFICATIONS

#### CABLE DRUM SIZE

Barrel Diameter	.....10 in.	(254 mm)
Flange Diameter	.....19 7/8 in.	(504 mm)
Barrel Length	.....12 3/8 in.	(314 mm)

#### HYDRAULIC SYSTEM

Oil Capacity	.....78 qts	(74 L)
Hydraulic Pressure for Winch Control	.....400 psi	(2,760 kPa)
Hydraulic Pump is Gear Type		
Accumulator is Spring-Type		
Applied Weight *	.....2,600 lbs	(1,180 kg)

#### GEAR RATIOS

Winch Overall Ratio:	
Standard Speed	.....62.2:1
Slow Speed	.....112.8:1

Optional Ratios: Consult Factory

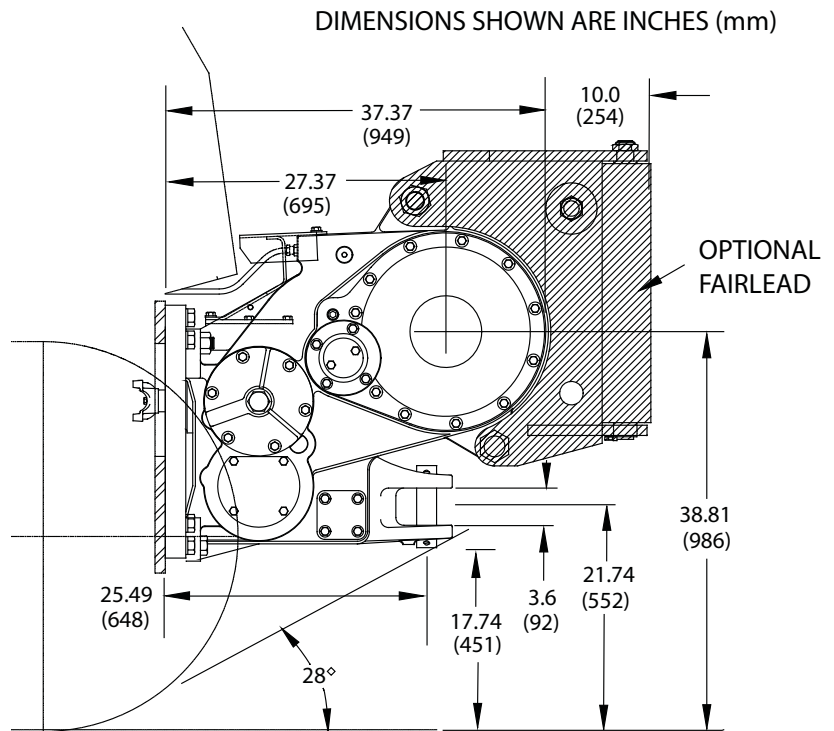
#### OPTIONS

- Free Spool Drum
- Gear Ratios
- 3 Roller Fairlead
- 4 Roller Fairlead
- Logging Arch
- Extended Draw Bar

**NOTE:** Order new tractor with code 7975 that includes the implement pump with a through-drive for the winch PTO shaft. If mounting a winch to an existing tractor in stock, order a new pump from John Deere that has the through-drive shaft. Also purchase from John Deere one each of yoke, AT191818, washer T163182, and capscrew 19M8011. These parts are needed for the PTO drive to the winch.

### MODEL 50B-PS DESCRIPTION

- Internal Hydraulic System with Gear Type Pump, Pressure Circuit Filtration and Maintenance-Free, Spring-Type Accumulator
- Single Lever Push-Pull Cable Control of Hydraulically Actuated Multi-Disc Wet Clutches and Brake; Equal Speeds - Forward and Reverse
- Rigid Cast Nodular Iron Case with Pin-On Fairlead Mounting Lugs and Heavy-Duty Rigid Draw Bar.
- Freespool Option adds One Additional Control Handle that Permits Pulling Cable off the Drum by Hand.



Approved Cable Diameters	Maximum Theoretical Cable Capacity per SAE J1158†	Maximum Recommended Cable Capacity per SAE J706†	PACCAR Ferrule Part Number ‡
3/4 in (19 mm)	391 ft (119 M)	267 ft (81 M)	29424
7/8 in (22 mm)	281 ft (86 M)	180 ft (55 M)	29425

\* Base winch without mounting arrangement, oil, or wire rope.

† Refer to PACCAR Publication LIT2435 for more information on proper wire rope selection for PACCAR Winches.

‡ Use six-strand IWRC RRL Wire Rope with PACCAR Ferrules.

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## PERFORMANCE CHARTS:

Winch performance specifications are based on 115 net tractor hp at 2100 RPM. Performance is calculated using 3/4 in. (20 mm) wire rope.

Maximum warrantable wire rope diameter is 7/8 in. (22 mm).

### STANDARD SPEED: E-3 SHAFT 62.2:1 OAR

#### WINCH LINE PULL AND LINE SPEED at rated hp and speed

BARE DRUM . . . . .	45,200 lbs. (20,500 kg)	82 fpm (25.0 mpm)
MEAN DRUM . . . . .	32,500 lbs. (14,700 kg)	113 fpm (34.4 mpm)
FULL DRUM . . . . .	25,400 lbs. (11,520 kg)	146 fpm (44.2 mpm)

#### WINCH LINE PULL AND LINE SPEED at maximum engine torque

BARE DRUM . . . . .	49,400 lbs. (22,410 kg)	54 fpm (16.5 mpm)
MEAN DRUM . . . . .	35,500 lbs. (16,100 kg)	75 fpm (22.9 mpm)
FULL DRUM . . . . .	27,800 lbs. (12,610 kg)	97 fpm (29.6 mpm)

### SLOW SPEED: E-4 SHAFT 112.8 OAR

#### WINCH LINE PULL AND LINE SPEED at rated hp and speed

BARE DRUM . . . . .	*69,200 lbs. (31,390 kg)	45 fpm (13.7 mpm)
MEAN DRUM . . . . .	59,000 lbs. (26,760 kg)	62 fpm (18.9 mpm)
FULL DRUM . . . . .	46,100 lbs. (20,910 kg)	80 fpm (24.4 mpm)

#### WINCH LINE PULL AND LINE SPEED at maximum engine torque

BARE DRUM . . . . .	*69,200 lbs. (31,390 kg)	30 fpm ( 9.1 mpm)
MEAN DRUM . . . . .	64,500 lbs. (29,260 kg)	42 fpm (12.8 mpm)
FULL DRUM . . . . .	50,400 lbs. (22,860 kg)	53 fpm (16.2 mpm)

\*The maximum line pull shown above is the lesser of either the maximum line pull that the tractor/winich will produce or the nominal breaking strength of the maximum rated cable diameter for 6X19 IPS cable.

NOTE: For new tractor installations, order code 7975 that includes the pump drive adapter P/N AT190950. Also purchase from John Deere one each of yoke, AT191818, washer T163182, and capscrew 19M8011. These parts are needed for the PTO drive to the winch.